



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.ct.gov/csc

March 18, 2004

Kenneth C. Baldwin
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **EM-VER-078-040310** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 1725 Stafford Road, Mansfield, Connecticut.

Dear Attorney Baldwin:

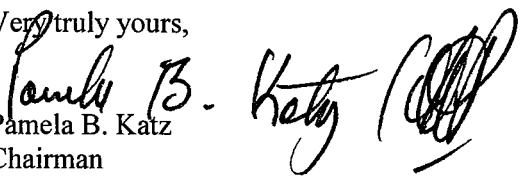
At a public meeting held on March 17, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated March 10, 2004. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz
Chairman

PBK/cm

- c: Honorable Elizabeth Patterson, Mayor, Town of Mansfield
Gregory Padick, Town Planner, Town of Mansfield
Christopher B. Fisher, Esq., Cuddy & Feder, LLP
Michele G. Briggs, Southwestern Bell Mobile Systems, LLC
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae LLP
Julie Donaldson Kohler, Esq., Hurwitz & Sagarin, LLC

ROBINSON & COLE LLP

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CONNECTICUT
SITING COUNCIL

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
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kbaldwin@rc.com
Direct (860) 275-8345

March 10, 2004

Via Hand Delivery

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification**
1725 Stafford Road
Mansfield, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on an existing tower at 1725 Stafford Road in Mansfield, Connecticut. Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Town Manager, Martin Berliner.

The existing facility consists of a 170-foot self-supporting monopole tower, capable of supporting multiple carriers within a fenced site compound. The tower is owned by the Town of Mansfield and operated by TCP Communications ("TCP"). The Town has emergency service antennas at the top of the tower. The tower is currently shared by AT&T Wireless extending above the 160-foot level; T-Mobile at the 140-foot level and Cingular (recently approved) at the 150-foot level. Cellco proposes to install twelve (12) panel-type antennas (6 PCS and 6 Cellular) at the 170-foot level on the tower and a 12' x 30' single-story equipment shelter near the base of the tower. (See Attachment 1 - Project Plans).

The planned modifications to the Mansfield facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modification will not increase the overall height of the existing tower. Cellco's antennas will be mounted with their centerline at the 170-foot level on the 170-foot tower.



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2. The proposed installation of twelve (12) panel-type antennas and a 12' x 30' equipment shelter will not require an extension of the site boundaries.

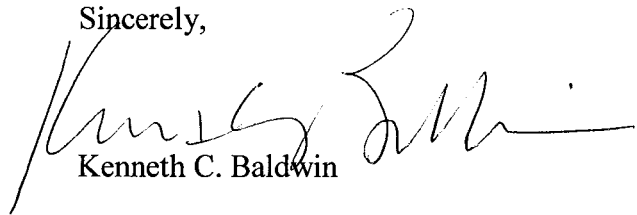
3. The proposed modification will not increase the noise levels at the facility by six decibels or more.

4. The operation of the antennas will not increase radio frequency (RF) power density levels at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. Pursuant to the RF Exposure Analysis prepared for Cingular and included in EM-CING-078-040106, the cumulative worst-case RF power density calculations for the Town, AT&T, Cingular and T-Mobile would be 12.83% of the applicable FCC Standard. The worst-case RF power density calculations for Cellco would be 4.69% of the applicable FCC Standard (See Attachment 2). Therefore, the combined worst-case RF power density calculations for existing and Cellco antennas would be 17.52% of the FCC standard.

Also included as Attachment 3 is an engineer's certification verifying that the tower can accommodate the existing and proposed antennas and related equipment.

For the foregoing reasons, Cellco respectfully submits that the proposed antenna installation at the Mansfield facility tower constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

Attachments

cc: Martin Berliner, Town Manager
Sandy M. Carter



[illegible]

REVISIONS

**MANSFIELD
NORTH
1725 STAFFORD ROAD
MANSFIELD, CT
06268**

SITE NAME / ADDRESS

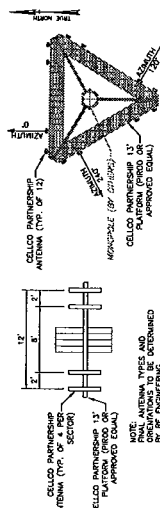
DRAWN BY _____
 APPROVED BY _____
 CHECKED BY _____
 DATE 02/03/04

COMPOUND PLAN AND TOWER ELEVATION

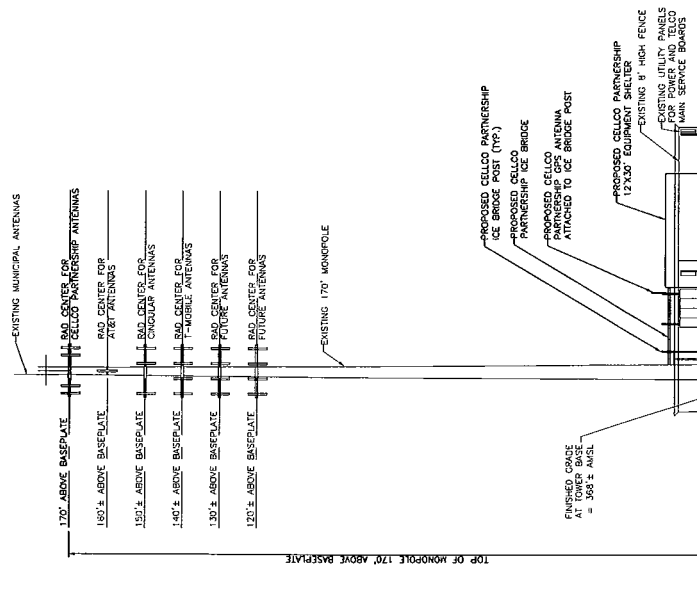
WOMEN **NUN ADVISORY**

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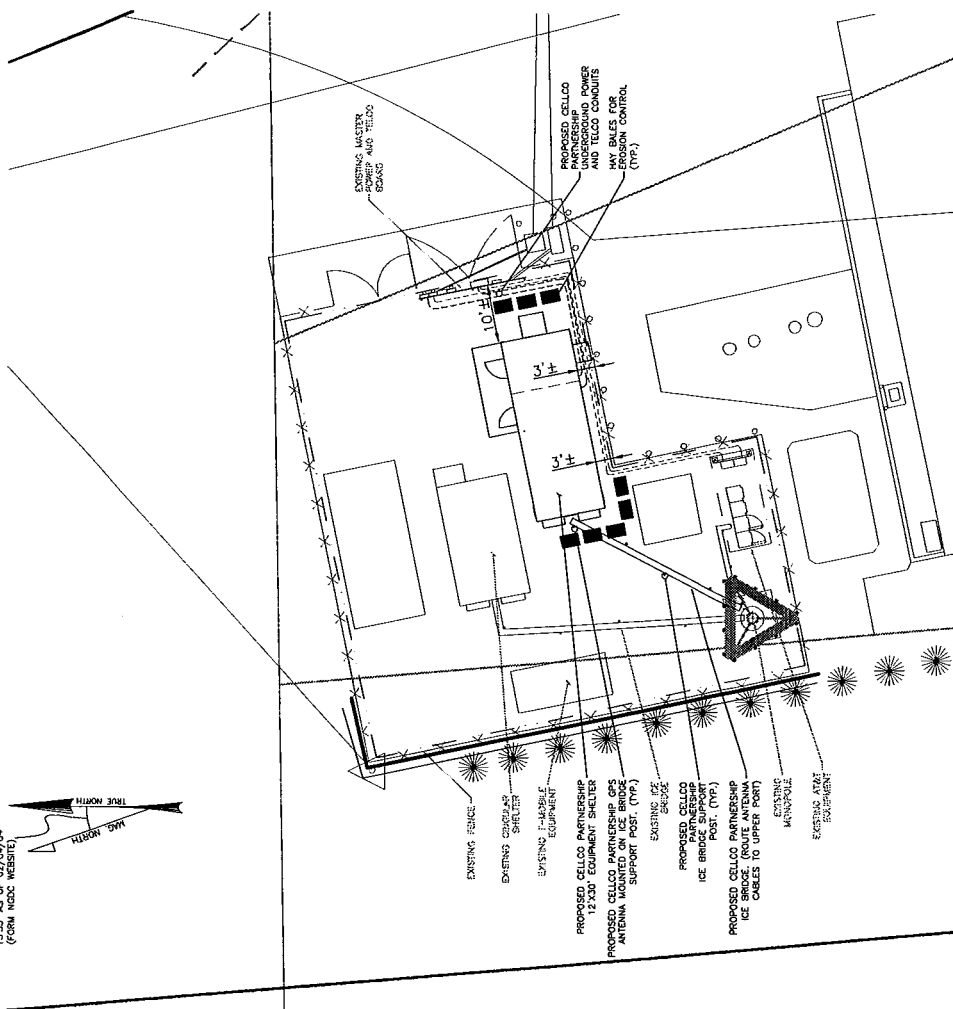
SWEETING



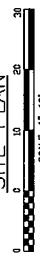
ANTENNA MOUNTING_CONFIGURATION
NOT TO SCALE



FOURTH ELEVATION



SITE PLAN



General Power Density

Site Name: Mansfield North, CT
Tower Height: 170 ft rad center

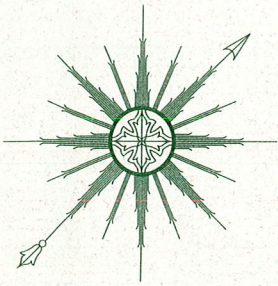
Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure [*] (mW/cm ²)	Fraction of MPE (%)	
Verizon	880	9	200	1800	170	0.0224	0.56733	3.95%	
Verizon	1900	3	200	600	170	0.0075	1	0.75%	
Total Percentage of Maximum Permissible Exposure								4.69%	

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz
mW/cm² = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case scenario, maximum values used.





ALL-POINTS TECHNOLOGY CORPORATION, P.C.

February 9, 2004

Verizon Wireless
99 East River Drive, 9th Floor
East Hartford, CT 06108

Attn: Wayne Lukachek
Re: 170' Monopole Tower
Verizon Project #00011050464; Mansfield North
Mansfield, Connecticut

Dear Wayne,

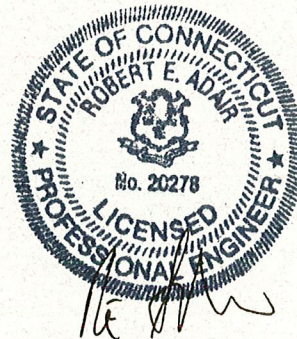
All-Points Technology Corporation, P.C. conducted a third-party review of the 170' monopole tower located at 1725 Stafford Road in Mansfield, Connecticut and fabricated by PennSummit Tubular, LLC. The review was conducted in accordance with EIA/TIA-222-F, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures. The review consisted of an independent structural evaluation to verify that Verizon Wireless' proposed antennas met the manufacturer's original tower design. Verizon proposes to replace their existing antennas with six DB844F90 and six DB948F85 panel antennas and twelve 1-5/8" waveguide cables. Antenna mounts will not change.

It is my conclusion that the existing monopole can safely accommodate the proposed Verizon Wireless antennas. The anticipated stress levels in the monopole and foundation are well within the limits of the original design and meet the requirements of EIA/TIA-222-F.

We appreciate this opportunity to provide you with our services. Please call if you have any questions.

Sincerely,
All-Points Technology Corporation, P.C.

Robert E. Adair, P.E.
Principal



CT141360 Mansfield North 2-9-04 ltr.doc